What is claimed is:

- A method for gene diagnosis of bovine Hsp70 deficiency, which comprises the following steps,
 - (a) a step of obtaining a bovine nucleic acid sample,
- (b) a step of subjecting the nucleic acid sample obtained in step (a) to a gene amplification reaction to obtain a nucleic acid fragment in which a region including a mutation site likely to be present in bovine Hsp70 gene is amplified, and
- (c) a step of examining the presence of mutation on the nucleic acid fragment in step (b),

the region including the mutation site being a region including 1997-11030 position of a base sequence shown in SEQ ID No. 1 of SEQUENCE LISTING in a base sequence of bovine Hsp70 gene.

- The method for gene diagnosis as claimed in claim
 wherein the gene amplification reaction is conducted by
 a polymerase chain reaction method.
- 3. The method for gene diagnosis as claimed in claim 1 or 2, wherein the presence of mutation is examined by examining a gene amplification product obtained by the polymerase chain reaction method.
- 4. The method for gene diagnosis as claimed in any one of claims 1 to 3, wherein the nucleic acid sample is a sample containing genomic DNA, cDNA or mRNA.

- 5. A method for gene diagnosis of bovine Hsp70 deficiency, which comprises conducting genome linkage analysis of subject bovine, isolating bovine Hsp70 gene by positional cloning, determining a base sequence of the gene by a usual manner, and examining the presence or absence of mutation by comparing said base sequence with a base sequence of cDNA encoding normal bovine Hsp70 as shown in SEQ ID No. 1 of SEQUENCE LISTING.
- 6. A kit for detecting bovine Hsp70 deficiency, which kit contains oligonucleotide primers used for amplifying a region including a mutation site likely to be present in bovine Hsp70 gene by a gene amplification reaction, the oligonucleotide primers being selected from the group consisting of
- (1) oligonucleotides having a base sequence corresponding to a 5'-terminal region in a base sequence shown in SEQ ID No. 1 of SEQUENCE LISTING, and
- (2) oligonucleotides having a complementary base sequence to a 3'-terminal region in the base sequence shown in SEQ ID No. 1 of SEQUENCE LISTING.
- 7. The kit as claimed in claim 6, wherein the oligonucleotide primers comprise from 15 to 35 nucleotides.
- 8. The kit as claimed in claim 6, wherein the oligonucleotide primers are a pair of oligonucleotide primers selected from the group consisting of those shown in SEQ ID

Nos. 2 to 8 of SEQUENCE LISTING, provided combinations of SEQ ID Nos. 2 and 4, 3 and 5, and 6 and 7 are excluded.